

What is claimed:

1. An air conditioner device, comprising:
 - a housing;
 - a first electrode, disposed in said housing;
 - a second electrode, removably disposed in said housing such that said second electrode can be manually removed from said housing and then manually returned to a resting position within said housing;
 - a base member attached to a bottom portion of said second electrode; and
 - an at least partially flexible cleaning member, attached to said base member, for frictionally cleaning said first electrode when, after being removed from said housing, said second electrode is manually returned to the resting position within said housing.
2. The device of claim 1, wherein said first electrode comprises a wire-like emitter electrode.
3. The device of claim 2, wherein the second electrode comprises a collector electrode having significantly more surface area than said wire-like emitter electrode.
4. The device of claim 3, wherein said collector electrode is hollow.
5. The device of claim 1, further comprising a high voltage generator that provides a potential difference between said first and second electrodes when said second electrode is in the resting position within said housing.
6. The device of claim 1, wherein said at least partially flexible cleaning member is electrically non-conductive.

7. The device of claim 1, wherein a gap exists between said first electrode and said second electrode when said second electrode is within said housing, and wherein said at least partially flexible cleaning member extends beyond said second electrode sufficient to span said gap.

8. An air conditioner device, comprising:

a housing including an elongated channel and at least one vent that allows air to enter said channel;

an emitter electrode;

a collector electrode configured to rest within said channel, generally parallel to said emitter electrode;

a handle attached to an upper portion of said collector electrode that allows said collector electrode to be manually moved within said channel, while remaining generally parallel to said emitter electrode; and

an at least partially flexible cleaning member attached near a bottom portion of said collector electrode that frictionally cleans said emitter electrode when said collector electrode is manually moved within said channel.

9. The device of claim 8, wherein a gap exists between said emitter electrode and collector second electrode when said collector electrode is within said channel, and wherein said at least partially flexible cleaning member extends beyond said second electrode sufficient to span said gap.

10. The device of claim 8, wherein said at least partially flexible cleaning member is non-conductive.

11. An air conditioner device, comprising:

a housing;

a first electrode, disposed in said housing;

a second electrode, removably disposed in said housing such that said second electrode can be manually removed from said housing and then manually returned to a resting position within said housing;

a base member attached to a bottom portion of said second electrode; and

a non-rigid cleaning member, attached to said base member, to frictionally scrape debris from said first electrode when, after being removed from said housing, said second electrode is manually returned to the resting position within said housing.

12. The device of claim 11, wherein said first electrode comprises a wire-like emitter electrode.

13. The device of claim 12, wherein the second electrode comprises a collector electrode having significantly more surface area than said wire-like emitter electrode.

14. The device of claim 13, wherein said collector electrode is hollow.

15. The device of claim 11, further comprising a high voltage generator that provides a potential difference between said first and second electrodes, when said second electrode is in the resting position within said housing.

16. The device of claim 11, wherein said non-rigid cleaning member is electrically non-conductive.

17. The device of claim 11, wherein a gap exists between said first electrode and said second electrode when said second electrode is within said housing, and wherein said non-rigid cleaning member extends beyond said second electrode sufficient to span said gap.

18. An air conditioner device, comprising:

a housing including an elongated channel and at least one vent that allows air to enter said channel;

an emitter electrode;

a collector electrode configured to rest within said channel, generally parallel to said emitter electrode;

a handle attached to an upper portion of said collector electrode that allows said collector electrode to be manually moved within said channel, while remaining generally parallel to said emitter electrode; and

a non-rigid cleaning member attached near a bottom portion of said collector electrode that frictionally cleans said emitter electrode when said collector electrode is manually moved within said channel.

19. The device of claim 18, wherein a gap exists between said emitter electrode and collector second electrode when said collector electrode is within said housing, and wherein said non-rigid cleaning member extends beyond said second electrode sufficient to span said gap.

20. An air conditioner device, comprising:

a housing;

a first electrode, disposed in said housing;

a second electrode, removably disposed in said housing such that said second electrode can be manually removed from said housing and then manually returned to a resting position within said housing; and

a cleaning member, attached to said second electrode, for frictionally cleaning said first electrode when, after being removed from said housing, said second electrode is manually returned to the resting position within said housing.

21. An air conditioner device, comprising:

a housing including an elongated channel and at least one vent that allows air to enter said channel;

an emitter electrode;

a collector electrode configured to rest within said channel, generally parallel to said emitter electrode;

a handle attached to an upper portion of said collector electrode that allows said collector electrode to be manually moved within said channel, while remaining generally parallel to said emitter electrode; and

a cleaning member attached to said collector electrode that frictionally cleans said emitter electrode when said collector electrode is manually moved within said channel, generally parallel to said emitter electrode.

22. An air conditioner device, comprising:

a housing;

a first electrode, disposed in said housing;

a second electrode, removably disposed in said housing such that said second electrode can be manually removed from said housing and then manually returned to a resting position within said housing; and

a cleaning member, attached to said second, for frictionally cleaning said first electrode when, after being removed from said housing, said second electrode is manually returned to the resting position within said housing.

23. The device of claim 22, wherein said first electrode comprises a wire-like emitter electrode.

24. The device of claim 23, wherein the second electrode comprises a collector electrode having significantly more surface area than said wire-like emitter electrode.

25. The device of claim 24, wherein said collector electrode is hollow.
26. The device of claim 22, further comprising a high voltage generator that provides a potential difference between said first and second electrodes when said second electrode is in the resting position within said housing.
27. The device of claim 22, wherein said cleaning member is electrically non-conductive.
28. The device of claim 22, wherein a gap exists between said first electrode and said second electrode when said second electrode is within said housing, and wherein said cleaning member extends beyond said second electrode sufficient to span said gap.
29. An air conditioner device, comprising:
 - a housing including an elongated channel and at least one vent that allows air to enter said channel;
 - an emitter electrode;
 - a collector electrode configured to rest within said channel; and
 - a cleaning member attached to said collector electrode that frictionally cleans said emitter electrode when said collector electrode is manually moved within said channel.
30. The device of claim 29, wherein a gap exists between said emitter electrode and collector second electrode when said collector electrode is within said channel, and wherein said cleaning member extends beyond said second electrode sufficient to span said gap.
31. The device of claim 29, wherein said cleaning member is non-conductive.

32. An air conditioner device, comprising:

 a housing;

 a first electrode, disposed in said housing;

 a second electrode, removably disposed in said housing such that said second electrode can be manually removed from said housing and then manually returned to a resting position within said housing; and

 a member, attached to said second electrode, to frictionally scrape debris from said first electrode when said second electrode is moved from said resting position.

33. An air conditioner device, comprising:

 a housing;

 an emitter electrode, disposed in said housing;

 a collector electrode, removably disposed in said housing such that said collector electrode can be manually removed from said housing and then manually returned to a resting position within said housing;

 a base member attached to a bottom portion of said collector electrode; and

 a cleaning member, attached to said base member, to frictionally scrape debris from said collector electrode when, after being removed from said housing, said collector electrode is manually returned to the resting position within said housing.